

Alabama Educational Television Commission

ATSC PSIP Stream Modifier

- 1.0** Alabama Educational Television Commission is requesting bids for ten ATSC program stream groomers to modify the PSIP information contained in the broadcast stream. AETC has nine transmitter sites located around the state of Alabama. The required Program and System Information Protocol (PSIP) information is generated at the network's master control. This information uses the data for the WBIQ-TV station. At the other eight transmitter locations this data must be modified to change certain items in the data stream to match each specific location. The ATSC PSIP Stream Modifier will take the incoming transport stream, automatically modify the PSIP information, and output the transport stream with the modified PSIP information in real time. After initial installation and setup, the unit will translate the transport stream without interruption 24 hours per day 7 days per week.

2.0 TECHNICAL SPECIFICATIONS

- 2.1 Unit must have both DVB-ASI and SMPTE310 inputs.
- 2.2 Unit must have two (2) identical DVB-ASI outputs and one (1) SMPTE310 output.
- 2.3 Unit must modify at minimum the following PSIP VCT information:
 - 2.31 Major Channel Number
 - 2.32 Minor Channel Numbers-up to five
 - 2.33 Station ID-minimum seven (7) characters
 - 2.34 PAT Transport Stream ID
 - 2.35 Channel Transport Stream ID
- 2.4 All timing must comply with ATSC A/65 standards.
- 2.5 Unit must perform all tasks in real-time.
- 2.6 Unit must have the ability to restart independently in case of unexpected shutdown including loss of AC voltage input.
- 2.7 Unit must perform PCR correction.
- 2.8 Unit must have Null Packet Insertion/Deletion in order to keep the fixed output at the 19.39265 Mbps standard.
- 2.9 Input AC power must be 100-130 volt 60 Hertz.
- 2.10 DVB-ASI and SMPTE310 inputs/outputs must be 75 ohm BNC.
- 2.11 Unit must have an RS232 interface. Ethernet interface is also preferred but not required.

3.0 SERVICE AND WARRANTY REQUIREMENTS

- 3.1 Each bidder will guarantee all equipment as represented in their bid against defects in materials and workmanship for a period of one (1) year minimum. The successful bidder further guarantees to replace or repair without cost to the Owner, any items that become defective within the warranty period when the defect is clearly a fault of the

manufacturer and not of misuse. This will include shipping to and from manufacturer for repairs or return of defective equipment.

- 3.2 Bidder's other standard terms, conditions and warranties which exceed 3.1 will be accepted.

4.0 QUANTITY TO BE PURCHASED

- 4.1 Ten (10) units will be purchased.
- 4.2 Units will be shipped to Alabama Public Television, 2112 11th Avenue South, Suite 400, Birmingham, AL 35205.
- 4.3 Shipping costs to the above location must be included in the base bid.